

JC03 Rec'd P PTO 03 MAY 2005 #4

PATENT ATTORNEY DOCKET NO.: 046124-5322

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicati	ion of: A	kira OHBA et al.)	
)	
U.S. Applicati	on No.:	10/508,793)))	Group Art Unit: Unassigned
International A	Appln. F	iling Date: March 20, 2003)	Examiner: Unassigned
Date of Natior	nal Stage	Entry: September 21, 2004)	
For: X-RAY I	MAGE	MAGNIFYING DEVICE)	
Commissione U.S. Patent an Customer Win Alexandria, V.	d Trader Idow, M	nark Office AIL STOP PCT		
UNDER		ONSE TO NOTIFICATION .C. § 371 IN THE U.S. DESIG		IISSING REQUIREMENTS ED/ELECTED OFFICE (DO/EO/US)
1.		replies to the Notification of Mid March 23, 2005.	ssing	Requirements (Form PCT/DO/EO/905)
enclos		y of the Notification of Missing	g Requ	irements (Form PTC/DO/EO/905) is
2.	Declar	ration Or Oath		
		No declaration or oath was frand Power of Attorney.	iled. I	Enclosed is the original Combined Declaration
				eclaration is a copy of the specification and re filed in the PTO to obtain the filing date.
				filed was determined to be defective. A new I Power of Attorney is attached.

3.	3.	English Translation of Non-English Language Papers
		Submitted herewith is a verified English translation of the non-English language application papers as originally filed. It is requested that this translation be used as the copy for examination purposes in the PTO.
		Also enclosed is the Verification of Translation Document
4.	Small	Entity Statement(s) Applicant(s) hereby assert small entity status.
5.	Fee C	alculation

Basic National Stage Fee: \$300.00 Number Filed Number Extra at a Rate of Total Claims 3-20 = 0 +\$ \$50.00 each= Independent Claims 0 +\$ \$200.00 each= 1 - 3 =Multiple dependent claim(s), if any \$360.00 +\$ Missing Requirements Surcharge Fee \$130.00 \$130.00 Application Size Fee \$250.00 for each additional 50 sheets that exceeds 100 Application Search Fee \$500.00 **Examination Fee** \$200.00 SUB-TOTAL = \$130.00Fee For Application Filed With A Non-English Specification (37 C.F.R. § 1.17(k) and § 1.52(d) \$130.00 +\$0.00 Fee For Processing and retention of application (37 C.F.R. +\$ § 1.21(l) and § 1.53(d) \$130.00 TOTAL FILING FEE = \$130.00

ATTORNEY DOCKET: 046124-5322 Application No. 10/508,793 Page 3

6.	Extens	Extension of Time The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136(a) apply.					
	-						
		Applicants petition for an ex §§ 1.17(a)-(d), for the total	•	ne, the fees for which are set out in 37 C.F.R onths checked below:			
		Total Months Requested One month Two months Three months Four months Five months	Extension Fee \$120.00 \$450.00 \$1,020.00 \$1,590.00 \$2,160.00	Extension Fee [Small Entity] \$60.00 \$225.00 \$510.00 \$795.00 \$1,080.00			
	Extens	sion of time fee due with this	request:	9	5		
	If an a	dditional extension of time is	required, please cor	sider this a Petition therefor.			
	\boxtimes	Applicant believes that no e	extension of time is r	required. However, this conditional			

overlooked the need for a petition and fee for extension of time.

7. Fee Payment

	The total fee due	e is: Completion Fees	\$ <u>130.00</u>
05/06/2005	MKAYPAGH 00000067 500310	10508793 Assignment Fees Total Fee Due	\$40.00
01 FC:1617	130.00 DA	Total Fee Due	\$ <u>170.00</u>

The Commissioner is hereby authorized to charge the total fee due to Deposit Account 50-0310.

petition is being made to provide for the possibility that applicant has inadvertently

Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R §1.16 and §1.17 which may be required, or credit any overpayment to Deposit Account No. 50-0310.

ATTORNEY DOCKET: 046124-5322 Application No. 10/508,793 Page 4

8.	Additio	onal papers enclosed.
	\boxtimes	Form PCT/IPEA/409 International
		Preliminary Examination Report
		Preliminary Amendment
		PCT/IB/338 English translation of the International
		preliminary Examination Report
	\boxtimes	Information Disclosure Statement
	\boxtimes	Form PTO-1449, 4 documents as listed
		Declaration of Biological Deposit
		Submission of "Sequence Listing", computer readable copy and/or amendment pertaining
		thereto for biotechnology invention containing nucleotide and/or amino acid sequence.

Respectfully submitted,

MORGAN, LEWIS & BOCKIUS LLP

Risort J. Gradul Reg. M. 41, 040

Date: May 3, 2005 Customer No. 09629

MORGAN, LEWIS & BOCKIUS LLP

1111 Pennsylvania Avenue, N.W.

Washington, D.C. 20004 Telephone: (202) 739-3000 Facsimile: (202) 739-3001



United States Patent and Trademark Office

Tocci

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS

P.O. Box 1450 Alexandria, Vinginia 22313-1450 www.unnhu.gay

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATT	Y. DOCKET NO.
10/508,793	Akira Ohba	04	16124-5322
		INTERNATIONAL AF	PLICATION NO.
		PCT/JP03	/03452
09629	, ,	LA. FILING DATE	PRIORITY DATE
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE N₩ -	3/28/05 _{Attorney} <u>J6S</u>	03/20/2003	03/22/2002
WASHINGTON, DC 20004 Case 4 Due Date Action 2 By 4	6/24-5322 5/23/05 Missfue Bay	371 FORMALIT	015536112*

Date Mailed: 03/23/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 09/21/2004
- English Translation of the IA filed on 09/21/2004
- Copy of the International Search Report filed on 09/21/2004
- Copy of IPE Report filed on 09/21/2004
- U.S. Basic National Fees filed on 09/21/2004
- Priority Documents filed on 09/21/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- \$130 Surcharge for providing the oath or declaration later than 30 months from the priority date (37 CFR 1.492(e)) is required.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

\$130 Late oath or declaration Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHENERS FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

MAR 2 8 2005
MCRGAN, LEWIS & BOCKUS LLP





The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

JOHN L ANDERSON

Telephone: (703) 308-9140 EXT 211

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/508.793	PCT/JP03/03452	046124-5322

FORM PCT/DO/EO/905 (371 Formalities Notice)

PATENT

ATTORNEY DOCKET NO.: 046124-5322

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
Akira OHBA et al.)	
Application No.: 10/508,793)	Group Art Unit: Unassigned
Filed: September 21, 2004)	Examiner: Unassigned
For: X-RAY IMAGE MAGNIFYING DEVICE)	
Commissioner for Patents U.S. Patent and Trademark Office Alexandria, VA 22314		

Sir:

SUBMISSION OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

A translation of an International Preliminary Examination Report ("IPER") issued in corresponding PCT/JP03/03452 is attached. Applicants respectfully request that the Examiner consider the IPER as it relates to the above-identified application.

Respectfully submitted,

MORGAN, LEWIS & BOCKIUS LLP

Dated: May 3, 2005 Customer No. 009629 MORGAN, LEWIS & BOCKIUS LLP 1111 Pennsylvania Avenue, N.W. Washington, D.C. 20004 (202) 739-3000

Robert J. Gaybrick, Reg. No. 27,890

Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

				
Applicant's or agent's file reference FP03-0052-00	FOR FURTHER ACTION		tionofTransmittalofInternational Preliminary n Report (Form PCT/IPEA/416)	
International application No.	International filing date (day	/month/year)	Priority date (day/month/year)	
PCT/JP03/03452	20 March 2003 (20	.03.03)	22 March 2002 (22.03.02)	
International Patent Classification (IPC) or national classification and IPC G21K 7/00, G01N 23/04				
Applicant	HAMAMATSU PHOTO	ONICS K.K.		
This international preliminary exam and is transmitted to the applicant at This REPORT consists of a total of	ccording to Article 36.		national Preliminary Examining Authority	
This report is also accompan amended and are the basis for 70.16 and Section 607 of the	This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.			
3. This report contains indications rela	ating to the following items:			
I Basis of the report				
II Priority				
III Non-establishment	of opinion with regard to novel	ty, inventive st	ep and industrial applicability	
IV Lack of unity of inv	vention			
v Reasoned statement citations and explan	t under Article 35(2) with regar nations supporting such stateme	d to novelty, in	ventive step or industrial applicability;	
VI Certain documents	cited			
VII Certain defects in the	he international application			
VIII Certain observation	ns on the international application	on		
Date of submission of the demand	Date	of completion of	of this report	
20 March 2003 (20.0	3.03)	02 O	ectober 2003 (02.10.2003)	
Name and mailing address of the IPEA/JP	Auth	orized officer		
Facsimile No	Teler	shone No		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP03/03452

I. Basis	of the report
1. With	regard to the elements of the international application:*
\boxtimes	the international application as originally filed
П	the description:
	pages, as originally filed
	pages, filed with the demand
	pages, filed with the letter of
	the claims:
	pages
	pages, as originally filed pages, as amended (together with any statement under Article 19
	77000
	pages, filed with the demand pages, filed with the letter of
	the drawings:
	pages, as originally filed
	pages, filed with the demand pages, filed with the letter of
_	pages, filed with the letter of
	he sequence listing part of the description:
	pages, as originally filed
	pages, filed with the demand
	pages, filed with the letter of
Thes	the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international minary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4. 🗍	The amendments have resulted in the cancellation of: the description, pages the claims, Nos the drawings, sheets/fig
5.	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
in th	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to s report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 0.17).
** Any i	eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/03452

v. 	Reasoned statement under Article 35(2) with regard to nov citations and explanations supporting such statement	clty, inventive step or industrial applicability;

1.	Statement			
	Novelty (N)	Claims	1-3	YES
		Claims		NO NO
	Inventive step (IS)	Claims		YES
		Claims	1-3	NO ·
	Industrial applicability (IA)	Claims	1-3	YES
		Claims		NO
2	Citations and aurilance			

Citations and explanations

Claims 1-3

Document 1: JP 4-265900 A (Nikon Corp.), 22 September 1992, entire text, all drawings, (Family: none)

Document 2: JP 9-251100 A (Olympus Optical Co., Ltd.),
22 September 1997, entire text, all
drawings, (Family: none)

Document 3: JP 9-178900 A (Olympus Optical Co., Ltd.),
11 July 1997, entire text, all drawings,
(Family: none)

Document 4: JP 7-243993 A (Hamamatsu Photonics Kabushiki Kaisha), 19 September 1995, entire text, all drawings, (Family: none)

Document 1 discloses a feature wherein an imageforming type soft X-ray microscope device, which comprises
an elliptic rotary reflection mirror (9) that is
configured from a multi-layer film, a zone plate (14) for
collecting the X-rays from the object (13) and forming an
image of the object, and a two-dimensional X-ray imaging
element (15) for detecting the image of said object, is
provided with an optical microscope that reflects the
light from the illuminating light source (22) by means of

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 03/03452

a reflection mirror (24) with angled holes formed therein, which is positioned in the vicinity of the object lens (23). In addition, document 1 also indicates that a detector such as a CCD, which is sensitive to visible light as well as X-rays, can be used as the two-dimensional X-ray imaging element (15).

Document 1 does not indicate that the imaging magnification of the X-ray image is adjusted by moving at least one component from among the X-ray image detection means, the sample material and the illuminating optical system along the optical axis in this device; however, document 2 discloses a soft X-ray microscope wherein the imaging magnification is changed by moving the detector (10) along the optical axis in order to change the distance between the detector (10) and the zone plate-type objective lens (9), and document 3 discloses an X-ray observation device that is equipped with a structure for changing the distance between the sample material and the X-ray optical system.

Furthermore, the provision of a second X-ray reflection means in addition to the first X-ray reflection means, as disclosed in document 4, is merely a design matter that can be configured by a person skilled in the art as necessary.